

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		<b>Complete if Known</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/591,425</td> </tr> <tr> <td>Filing Date</td> <td>June 22, 2007</td> </tr> <tr> <td>First Named Inventor</td> <td>K. Matyjaszewski</td> </tr> <tr> <td>Art Unit</td> <td>1796</td> </tr> <tr> <td>Examiner Name</td> <td>Bernard Lipman</td> </tr> <tr> <td>Attorney Docket Number</td> <td>050137PCTUS</td> </tr> </table>		Application Number	10/591,425	Filing Date	June 22, 2007	First Named Inventor	K. Matyjaszewski	Art Unit	1796	Examiner Name	Bernard Lipman	Attorney Docket Number	050137PCTUS
Application Number	10/591,425														
Filing Date	June 22, 2007														
First Named Inventor	K. Matyjaszewski														
Art Unit	1796														
Examiner Name	Bernard Lipman														
Attorney Docket Number	050137PCTUS														
Sheet	1	of	12												

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 3,183,217	05-11-1965	Sernluk, et al.	
		US- 3,862,978	01-28-1975	Decker et al.	
		US- 3,959,225	05-25-1976	Kuntz	
		US- 4,007,165	02-08-1977	MacLeay, et al.	
		US- 4,374,751	02-22-1983	Dudgeon	
		US- 4,728,706	03-01-1988	Farnham, et al.	
		US- 4,940,848	07-10-1990	Geiger	
		US- 4,954,416	09-04-1990	Wright, et al.	
		US- 5,089,135	02-18-1992	Yoneyama, et al.	
		US- 5,169,914	12-08-1992	Kaszas, et al.	
		US- 5,312,871	05-17-1994	Mardare, et al.	
		US- 5,405,913	04-11-1995	Harwood, et al.	
		US- 5,451,647	09-19-1995	Faust, et al.	
		US- 5,470,928	11-26-1995	Harwood, et al.	
		US- 5,510,307	04-23-1996	Narayanan, et al.	
		US- 5,763,548	06-09-1998	Matyjaszewski, et al.	
		US- 5,789,487	08-04-1998	Matyjaszewski, et al.	
		US- 6,114,462	09-05-2000	Senniger, et al.	
		US- 6,255,448	07-31-2001	Grimaldi, et al.	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)					
		EP 0341012 A2		11-08-1989	Edison Polymer Innovation Corp		
		EP 0870809 A2		10-14-1998	Fuji Photo Film Co.		
		WO 00/56795 A1		09-28-2000	Carnegie Mellon Univ		
		EP 0285091 A1		04-27-1988	E.I. Du Pont		
		EP 0789036 A1		08-13-1997	Kaneka Corp		
		EP 0816385 A1		01-07-1998	Kaneka Corp		

Examiner Signature	/Bernard Lipman/	Date Considered	04/07/2010
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\*EXAMINER: initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Sheet <b>2</b> of <b>12</b>			Application Number <b>10/591,425</b>	
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			First Named Inventor <b>K. Matyjaszewski</b>	
			Art Unit <b>1796</b>	
			Examiner Name <b>Bernard Lipman</b>	
			Attorney Docket Number <b>050137PCTUS</b>	

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		US- 5,807,937	09-15-1998	Matyjaszewski, et al.	
		US- 5,886,118	03-23-1999	Percec	
		US- 5,910,548	06-08-1999	Matyjaszewski, et al.	
		US- 5,945,491	08-31-1999	Matyjaszewski, et al.	
		US- 6,111,022	08-29-2000	Matyjaszewski, et al.	
		US- 6,121,371	09-19-2000	Matyjaszewski, et al.	
		US- 6,124,411	09-26-2000	Matyjaszewski, et al.	
		US- 6,162,882	12-19-2000	Matyjaszewski, et al.	
		US- 6,288,186	09-11-2001	Matyjaszewski, et al.	
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		US- 6,538,091	03-25-2003	Matyjaszewski, et al.	
		US- 6,541,580	04-01-2003	Matyjaszewski, et al.	
		US- 6,624,262	09-23-2003	Matyjaszewski, et al.	

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		Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>4</sup> (If known)	Publication Date MM-DD-YYYY			
		WO 98/06758 A1	02-19-1998	E.I. Du Pont		
		WO 98/20060 A2	05-14-1998	E.I. Du Pont		
		WO 00/47634 A1	08-17-2000	Ineos Acrylics UK		
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		WO 2008/057183 A2	05-15-2008	Carnegie Mellon Univ		
		WO 2008/148000 A1	12-04-2008	Carnegie Mellon Univ		
		WO 2009/023353 A9	02-19-2009	Carnegie Mellon Univ		
		WO 2009/111725 A1	09-11-2009	Carnegie Mellon Univ		
		WO 2007/026086 A2	03-01-2007	Carnegie Mellon Univ		
		CN 1165828A (English abstract)	11-26-1997	Huadong University		

Examiner Signature	/Bernard Lipman/	Date Considered	04/07/2010
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Substitute for form 1449A/PTO				<b>Complete if Known</b>	
				Application Number	10/591,425
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				Filing Date	June 22, 2007
				First Named Inventor	K. Matyjaszewski
				Art Unit	1798
				Examiner Name	Bernard Lipman
				Attorney Docket Number	050137PCTUS
Sheet	3	of	12		

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		US- 6,624,263	09-23-2003	Matyjaszewski, et al.	
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		US- 6,692,914	02-17-2004	Klaerner et al.	
		US- 6,759,491	07-06-2004	Matyjaszewski et al.	
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		US- 7,125,938	10-24-2006	Matyjaszewski et al.	
		US- 7,157,530	01-20-2007	Matyjaszewski et al.	
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		US- 7,572,874	08-11-2009	Matyjaszewski et al.	

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>					
Sheet	4	of	12		

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		PCT International Search Report for International Application No. PCT/US05/07264 filed 12 June 2005, mailed 05 July 2005.	
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		D. GRESZTA et al., Gradient Copolymers of Styrene and Acrylonitrile Via Atom Transfer Radical Polymerization, Polymer Preprints, 1997, pp. 709-710, Vol 38(1).	
		J. GROMADA et al., Simultaneous Reverse and Normal Initiation in Atom Transfer Radical Polymerization, Macromolecules, 2001, pp. 7664-7671, 34(22).	
		J. S. WANG et al., Controlled/Living* Radical Polymerization. Atom Transfer Radical Polymerization in the Presence of Transition-Metal Complexes, Journal of the American Chemical Society, 1995, pp 5614-5615, Vol 117(20).	
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		K. MATYJASZEWSKI et al., Controlled/Living* Radical Polymerization of Styrene and Methyl Methacrylate Catalyzed by Iron Complexes <sup>†</sup> , Macromolecules, 1997, pp. 8161-8164, Vol. 30(26).	
		K. MATYJASZEWSKI et al., Zerovalent Metals in Controlled/Living* Radical Polymerization, Macromolecules, 1997, pp. 7348-7350, Vol. 30(23).	
		K. MATYJASZEWSKI ed., Controlled/Living* Radical Polymerization. Progress in ATRP, NMP, and RAFT, in: ACS Symposium Ser., 2000, Chapter 19, Reverse Atom Transfer Radical Polymerization Using AIBN or BPO as Initiator, pp. 263-275.	

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		M. WEI et al., Atom Transfer Radical Polymerization of Styrene in the Presence of Iron Complexes, <i>Polymer Preprints</i> , 1997, pp. 231, Vol. 38(2).	
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		J. QUEFFelec et al., Optimization of Atom Transfer Radical Polymerization Using Cu(I)/Tris-(2-(dimethylamino)ethyl)amine as a Catalyst, <i>Macromolecules</i> , 2000, pp. 8629-8639, Vol. 33.	
		S. COCA et al., Polymerization of Acrylates by Atom Transfer Radical Polymerization. Homopolymerization of 2-Hydroxyethyl Acrylate, <i>Journal of Polymer Science, Part A: Polymer Chemistry</i> , 1998, pp.1417-1424, Vol. 36.	
		S. M. JO et al., Polyacrylonitrile with Low Polydispersities by Atom Transfer Radical Polymerization, <i>Polymer Preprints</i> , 1997, pp. 697-698, Vol. 38(1).	
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		T. TAKEICHI et al., Preparation of Porous Carbon Films by the Pyrolysis of Poly(Urethane-imide) Films and Their Pore Characteristics, <i>Carbon</i> , 2001, pp. 257-265, Vol. 39(2).	
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		U. SCHUBERT et al., Design of Effective Systems for Controlled Radical Polymerization of Styrene: Application of 4,4'-Dimethyl and 5,5'-Dimethyl 2,2'-Bipyridine Copper(II) Complexes, <i>Macromolecular Rapid Communication</i> , 1999, pp. 351-355, Vol. 20.	

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Substitute for form 1449A/PTO			<b>Complete if Known</b>	
			Application Number	10/591,425
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			Filing Date	June 22, 2007
			First Named Inventor	K. Matyjaszewski
			Art Unit	1796
			Examiner Name	Bernard Lipman
(use as many sheets as necessary)			Attorney Docket Number	050137PCTUS
Sheet	7	of 12		

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		K. MATYJASZEWSKI et al., Atom Transfer Radical Polymerization, <i>Chemical Reviews</i> , 2001, pp. 2921-2990, Vol. 101(9).	
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		J. P. COLLMAN et al., "Clicking" Functionality onto Electrode Surfaces, <i>Langmuir</i> , 2004, pp. 1051-1053, Vol. 20.	
		H. KOLB et al., Click Chemistry: Diverse Chemical Function from a Few Good Reactions, <i>Angewandte Chemie, International Edition</i> , 2001, pp. 2004-2021, Vol. 40(11).	
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		O. A. MATTHEWS et al., Dendrimers-Branching out from Curiosities into New Technologies, Progress in Polymer Science, 1988, pp. 1-56, Vol. 23.	
		J.-P. MAJORAL et al., Dendrimers Containing Heteroatoms (Si, P, B, Ge, or Bi), Chemical Reviews, 1999, pp. 845-880, Vol. 99(3).	
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>																	
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Examiner Signature	/Bernard Lipman/	Date Considered	04/07/2010
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